MECHANIC STUDY GUIDE

Brakes & Braking Systems

Automobile & Light Truck Repair

Listed below are a number of items and subjects which make up the mechanic certification test identified above. An individual's ability to pass the certification test will depend upon the amount of knowledge the person has concerning these items. **NOTE**: There could be up to 5 additional pre-test questions. These questions will not count but may be used on a later version of the test. Your answers to these pre-test questions will not affect your score. Since you won't know which they are, you should answer all questions.

System Diagnosis - 21%

Load sensing proportioning valves
Brake pedal pulsation
Grabbing brakes
Brake lock-up
Dragging brakes
Combination valve
Gear lube in drums
Brake booster

Master Cylinder Diagnosis & Repair - 10%

Low fluid level Rebuilding Swollen diaphragm Sinking pedal

ABS Diagnosis & Repair - 19%

Pump/motor operation Safety precautions Speed sensors Wheel speed readings 3 way circuits 4 way circuits Hose replacement

Drum Brake Diagnosis & Repair - 21%

Drum finish
Single anchor Bendix type
Self adjuster diagnosis
Noise diagnosis
Measuring
Primary v.s. secondary shoes

Disc Brake Diagnosis & Repair - 17%

Rotor thickness variation Rotor surface finish Caliper overhaul Brake noise Brake adjustment Measuring

Repair Procedures - 12%

Brake line bleeding Brake fluid diagnosis Replacing wheel bearings/races Brake adjustments

SAMPLE QUESTION:

A car has a spongy pedal. Which of the following could be the cause?

- A. Air in the system.
- B. An internal master cylinder leak.
- C. Worn brake pads.
- D. Warped brake disc.

ANSWER: A